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Sughrue Mion Zinn MacPeak & Seas  
2100 Pennsylvania Avenue NW  
Washington, DC 20037

EXAMINER

REAGAN, JAMES A

ART UNIT	PAPER NUMBER
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3621

DATE MAILED: 11/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/590,686

Applicant(s)

HOSHINO, SATOSHI

Examiner

James A. Reagan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 09 June 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6, 7.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## **DETAILED ACTION**

### **Status of Claims**

1. This action is in response to the application filed on 09 June 2000.
2. Claims 1-30 have been examined.

### **Information Disclosure Statement**

3. The Information Disclosure Statements filed on 20 March 2001 (paper no. 5), 20 December 2001 (paper no. 6), and 19 April 2002 (paper no. 7) have been considered. Initialed copies of the Forms 1449 are enclosed herewith.

### **Claim Rejections - 35 USC § 112**

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. The claims are generally narrative and indefinite, failing to conform to current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. The claims are replete with minor grammatical errors that make the claim language difficult to understand. Applicant is respectfully requested to review the claim language and make all the necessary adjustments in order to clarify and more accurately define the scope of the limitations. The Examiner has pointed out a few of the minor informalities below to assist the Applicant in revising the claim language to better define the metes and bounds.

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6. Claims 4, 6, 15, 16, 19, 27, and 29 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

**Claim 4:**

The phrase "with using" is unclear and therefore indefinite.

**Claim 6:**

The phrase "with using" is unclear and therefore indefinite.

**Claim 15:**

The phrased "dealings" is vague and indefinite. The phrase as used in the limitations does not define the metes and bounds of the limitation.

The phrase "dealing information" is vague and indefinite. The phrase as used in the limitations does not define the metes and bounds of the limitation.

**Claim 16:**

The phrase "certified one" is vague and indefinite. The phrase as used in the limitations does not define the metes and bounds of the limitation.

**Claim 19:**

The phrase "certified one" is vague and indefinite. The phrase as used in the limitations does not define the metes and bounds of the limitation.

**Claim 27:**

The phrase "certified one" is vague and indefinite. The phrase as used in the limitations does not define the metes and bounds of the limitation.

**Claim 29:**

The phrase "certified one" is vague and indefinite. The phrase as used in the limitations does not define the metes and bounds of the limitation.

7. Claim 20 recites the limitation "*permitting the update data input.*" There is insufficient antecedent basis for this limitation in the claim. For the purposes of this examination, the phrase "*permitting the update data input*" will be defined as allowing updated data to be inputted.

#### **Claim Rejections - 35 USC § 103**

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lang (US 5,191,611) in view of Bosen et al. (US 4,907,268).

**Examiner's note:** Examiner has pointed out particular references contained in the prior art of record in the body of this action for the convenience of the Applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply. Applicant, in preparing the response, should consider fully the *entire* reference as potentially teaching all or part of the claimed

invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

**Claim 1:**

With regard to the limitation of:

- *said storage units comprise a first storage unit which stores an electronic data record file including electronic data, and a second storage unit which stores a log file including log data representing input or update log of the electronic data recorded on said electronic data record file*, Lang discloses storage media subdivided into logical zones (abstract), updating the storage media's recorded material (column 12, lines 59-60), and a storage accessing device i.e. smart card (column 2, lines 42-44). Lang does not specifically disclose a log file. Bosen, however, does disclose "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Lang with Bosen because maintaining a log of user access, user changes, and administrative functions enables secure right to use and information assurance within a valuable system.
- *said input device inputs electronic data to be recorded on said electronic data record file, and update data to update the recorded*

*electronic data*, Lang discloses updating the storage media's recorded material (column 12, lines 59-60), and an input devices (Figure 1).

- said controller executes the program stored in said memory to:
  - *store log of the electronic data input from said input device in the log file*, Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33), inherently disclosing the storage of log data.
  - *store the electronic data input from said input device in the electronic data record file*, Lang discloses storage media subdivided into logical zones (abstract), inherently disclosing the step of storing the data.
  - *control said data reader to determine whether said first recording medium being accessed by said data reader is certified medium or not*, Lang discloses personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45), as applied to the use of a smart card, inherently disclosing the security of the medium.
  - *determine whether said system is operated by a certified operator based on externally given information*, Lang discloses personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45), as applied to the use of a smart card.

- *allow the operator to input the update data through said input device to update the electronic data in the electronic data record file when said first recording medium and the operator are certified*, Lang discloses updating the databases through the normal update activities (column 12, line 59 to column 13, line 8).
- *update the electronic data in the electronic data record file in accordance with the update data input by said input device*, Lang discloses updating the databases through the normal update activities (column 12, line 59 to column 13, line 8).
- *store log of the update data input by the input device in the log file*, Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33), inherently disclosing a new entry into the log.

**Claim 2:**

The combination of Lang/Bosen discloses the limitations as shown above. Lang/Bosen do not specifically disclose *said second storage unit is detachably connected to said system*. Bosen, however, does disclose a detachable EEPROM device. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang/Bosen because detachable devices such as hard drives, storage media, and card readers allow the user to conveniently



transport the mobile devices from one machine to another, making the system more portable and efficient.

**Claim 3:**

The combination of Lang/Bosen discloses the limitations as shown above. Lang/Bosen do not specifically disclose *said first recording medium is detachably connected to said data reader*. Bosen, however, does disclose a detachable EEPROM device. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang/Bosen because detachable devices such as hard drives, storage media, and card readers allow the user to conveniently transport the mobile devices from one machine to another, making the system more portable and efficient.

**Claim 4:**

With regard to the limitation of:

- *said first recording medium stores predetermined encryption keys, and said system further comprises a medium verification unit which stores predetermined encryption keys, collaborates with said data reader to perform medium verification by the challenge-response with using the own encryption key and the encryption key read from said first recording medium, and informs said controller of the verification results*, Lang discloses personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45), as applied to the use of a smart card, inherently disclosing the security

of the medium, and a challenge-response technique 9column 13, line 49).

**Claim 5:**

The combination of Lang/Bosen discloses the limitations as shown above. Lang/Bosen do not specifically disclose *said controller encrypts the log of the electronic data input by said input device with the predetermined encryption key, and stores the encrypted data in the log file.* However, Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang/Bosen because securing the log file with encryption algorithms prevents unauthorized access, ensuring the legitimacy of the data.

**Claim 6:**

Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). The combination of Lang/Bosen does not specifically disclose:

- *said controller decodes the encrypted log of the input electronic data stored in the log file with using a predetermined decode key when said controller certifies said first recording medium and the operator, and*
- *said system further comprises an output device which outputs the log of the input electronic data decoded by said controller.*

However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang/Bosen because the log must inherently must be decrypted using the same or similar method in which is was encrypted, and successively made available to an authorized administrator for viewing. This provides an efficient and readily available method for accessing the encrypted log file information.

**Claim 7:**

With regard to the limitation of *said input device inputs the update data in accordance with the log of the input electronic data output by said output device*, it is obvious that an input device would allow the entry of the data presented to the user on an output device, such as with a keyboard and monitor.

**Claim 8:**

With regard to the limitation of:

- *said input device also inputs verification information representing an operator who inputs the electronic data or the update data, and*
- *said controller associates the verification information input by said input device with the input or updated electronic data before storing the electronic data in the electronic data record file*, Lang discloses a smart card reader and verification method for a user, and associating the information between a user and a computer. Lang does not specifically disclose that this method must be completed before storing or updating electronic data, but it would be obvious

to one of ordinary skill in the art to modify the steps to re-verify the user before writing the new information to the storage media.

**Claims 9-11:**

With regard to the limitations of:

- *a third storage unit which stores a physical characteristic data file including data representing physical characteristics of the certified operator, and*
- *said system further comprises a data input device which inputs data representing the operator's physical characteristics, and a user verification unit which compares the physical characteristic data input by said data input device with the physical characteristic data stored in the physical characteristic data file, and determines whether the operator is the certified operator or not based on the comparison results;*
- *said first recording medium further stores data relating to the physical characteristics of the certified operator, and*
- *said user verification unit compares the physical characteristic data input by the data input device with the physical characteristic data stored in said first recording medium, and determines whether the operator is the certified operator or not based on the comparison results;*

- *said controller acts as said user verification unit by executing a program stored in said memory*, Lang discloses the use of biometrics (column 3, lines 10-19). Lang does not specifically disclose where the biometric information is stored on the system, but it would be an obvious to one of ordinary skill in the art to modify the storage of the biometric data as a desirable design choice.

**Claim 12:**

With regard to the limitation of *said controller stores the electronic data stored by said input device in the electronic data record file immediately after the data input*, Lang discloses updating the storage media's recorded material (column 12, lines 59-60), and an input devices (Figure 1). However, Examiner takes **Official Notice** that it is old and well known in the computer arts to store information on a database, in a special file folder, or onto a storage medium as soon as it is entered into the machine. The particulars as to how soon, where, and through which medium are design choices that are nearly equivalent and substitutable, and therefore would be obvious to one of ordinary skill in the art.

**Claim 13:**

With regard to the limitation of *said controller stores the electronic data in the electronic data record file based on the log of the electronic data stored in the log file when said controller certifies said first recording medium and the operator*, Lang discloses updating the storage media's recorded material (column 12, lines

59-60), personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45). Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). The combination of Lang/Bosen does not specifically disclose that the file is stored based on the log file. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang/Bosen because using the log history as a basis for file storage and retrieval ensures the continuity of file storage, which makes certain that files are organized properly and securely.

**Claim 14:**

With regard to the limitation of:

- *a second data reader which reads data stored in a detachable second recording medium, wherein said controller allows said input device to input the electronic data when said controller certifies said second recording medium based on the data read by said second data reader*, Lang discloses the use of biometrics (column 3, lines 10-19), as well as smart cards, inherently disclosing a smart card reader and a second reader, such as a fingerprint reader, for the biometric input.

In addition, Lang does not specifically disclose that the second recording medium is detachable. Bosen, however, does disclose a detachable EEPROM device. It would have been obvious to one of ordinary skill in the art at the time

of the invention to modify Lang/Bosen because detachable devices such as hard drives, storage media, and card readers allow the user to conveniently transport the mobile devices from one machine to another, making the system more portable and efficient.

**Claim 15:**

With regard to the limitation of:

- *the electronic data record file stores electronic account data, and*
- *the electronic data and the update data include information regarding to dealings and information for updating the dealing information to be recorded on the electronic account,* Lang shows a diagram showing multiple entries or user accounts in the index table of a storage medium (Figure 4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang to update user accounts and the transactions associated with user accounts and to then store the updated information on the storage medium.

**Claim 16:**

With regard to the limitation of:

- *data input means for inputting electronic data,* see Lang, Figure 1.
- *electronic data recording means for recording information input by said data input means,* see Lang, Figure 1.

- *medium verification means for verifying a detachable recording medium when said recording medium is applied to said medium verification means*, Lang discloses storage media sub-divided into logical zones (abstract), updating the storage media's recorded material (column 12, lines 59-60), and a storage accessing device i.e. smart card (column 2, lines 42-44). Lang also discloses personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45), as applied to the use of a smart card, inherently disclosing the security of the medium.
- *user verification means for determining whether an operator is a certified one or not*, Lang discloses personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45), as applied to the use of a smart card, inherently disclosing the security of the medium.
- *access authorization means for authorizing input of update data for updating the electronic data recorded on said electronic data recording means, when said medium verification means verifies said recording medium and said user verification means verifies the operator*, Lang discloses personal security keys (abstract) and encryption/decryption algorithms (column 4, lines 41-45), as applied to the use of a smart card, inherently disclosing the security of the medium.



- *update data input means for inputting the update data when said access authorization means authorizes input of the update data*, Lang discloses updating the databases through the normal update activities (column 12, line 59 to column 13, line 8).
- *data update means for updating the electronic data stored in said electronic data recording means in accordance with the update data input by said update data input means*, Lang discloses updating the databases through the normal update activities (column 12, line 59 to column 13, line 8).

Lang does not specifically disclose *log management means for recording log of the electronic data input by said data input means and log of the update data input by said update data input means*. Lang does not specifically disclose a *log file*. Bosen, however, does disclose "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Lang with Bosen because maintaining a log of user access, user changes, and administrative functions enables secure right to use and information assurance within a valuable system.

**Claim 17:**

Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). The combination of Lang/Bosen does not specifically disclose *electronic data output means for*

*outputting the log of the electronic data recorded on said log management means when said access authorization means authorizes the update data input,*

However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lang/Bosen because the log must inherently must be decrypted using the same or similar method in which is was encrypted, and successively made available i.e. outputted to an authorized administrator for viewing. This provides an efficient and readily available method for accessing the encrypted log file information.

With regard to the limitation of *wherein said update data input means inputs the update data in accordance with the electronic data output by said electronic data output means*, it is obvious that an input device would allow the entry of the data presented to the user on an output device, such as with a keyboard and monitor.

**Claim 18:**

With regard to the limitation of:

- *said data input means also inputs verification information representing who inputs the electronic data*, Lang discloses a smart card reader and verification method for a user, and associating the information between a user and a computer.
- *said update data input means also inputs verification information representing who inputs the update data*, Lang discloses a smart

card reader and verification method for a user, and associating the information between a user and a computer.

- *said electronic data recording means associates the verification information representing who inputs the electronic data or the update data with the input electronic data or updated electronic data before recording the electronic data*, Lang does not specifically disclose that this method must be completed before storing or updating electronic data, but it would be obvious to one of ordinary skill in the art to modify the steps to re-verify the user before writing the new information to the storage media. Requiring this information ensures that proper logs are recorded.

**Claim 19:**

With regard to the limitation of:

- *an electronic data record file for recording electronic data, and a log file for recording log of input or update of the electronic data to be recorded on the electronic data record file, said method comprising:*
- *inputting the electronic data to be recorded on the electronic data record file;*
- *storing log of the input electronic data in the log file;*
- *recording the input electronic data on the electronic data record file;*
- *discriminating whether a detachable recording medium is certified one or not when said recording medium is applied to said system;*

- *discriminating whether a certified operator operates said system or not; permitting input of update data for updating the electronic data recorded on the electronic data record file when the recording medium and the operator are certified;*
- *inputting the update data after the permission;*
- *updating the electronic data in the electronic data record file in accordance with the input update data; and*
- *storing log of the input update data in the log file.*

The limitations of claim 19 are the same as the limitations of claim 1, and are therefore rejected on the same basis.

**Claim 20:**

With regard to the limitation of *said permitting the update data input outputs the log of the input electronic data stored in the log file*, Lang discloses updating the storage media's recorded material (column 12, lines 59-60), and an input devices (Figure 1), and Bosen discloses "...encrypted log of the accesses is recorded so that supervisors may access it at any time" (column 3, lines 32-33). The combination of Lang/Bosen does not specifically disclose that the log file is outputted at that time. However, Examiner takes **Official Notice** that it is old and well known in the computer arts to store information on a log, and then to provide the log to the user. The particulars as to how to present the log to a user are merely a design choice, and therefore would be obvious to one of ordinary skill in the art.

With regard to the limitation of *the update data are input in accordance with the output electronic data*, Lang discloses updating the storage media's recorded material (column 12, lines 59-60). Lang/Bosen do not specifically disclose the format in which the data is inputted to the storage system. However, Examiner takes **Official Notice** that it is old and well known in the computer arts to store information using the same format as the stored data. The particulars as to how to store data are merely a design choice, and therefore would be obvious to one of ordinary skill in the art.

**Claim 21:**

With regard to the limitation of:

- *encrypting log of the input electronic data and the update data when storing the log of the input electronic data or the log of the input update data in the log file.*

The limitations of claim 21 are the same as the limitations of claim 5, and are therefore rejected on the same basis.

**Claim 22:**

With regard to the limitation of:

- *decoding the log of the input electronic stored in the log file when the recording medium and the operator are certified, and outputting the decoded log data.*

The limitations of claim 22 are the same as the limitations of claim 6, and are therefore rejected on the same basis.

**Claim 23:**

With regard to the limitation of:

- *said inputting the electronic data also inputs verification information representing who input the electronic data,*
- *said inputting the update data also inputs verification information representing who inputs the update data,*
- *said recording the electronic data on the electronic data record file associates the verification information representing who inputs the electronic data with the electronic data before recording the electronic data on the electronic data record file, and*
- *said recording the update data on the electronic data file associates the verification information representing who inputs the update data before recording the update data on the electronic data record file.*

The limitations of claim 23 are the same as the limitations of claim 8, and are therefore rejected on the same basis.

**Claim 24:**

With regard to the limitation of:

- *said discriminating the certified operator compares data representing physical characteristics of an operator with previously*

*stored data representing physical characteristics of the certified operator.*

The limitations of claim 24 are the same as the limitations of claim 10, and are therefore rejected on the same basis.

**Claim 25:**

With regard to the limitation of:

- *said recording the electronic data on the electronic data record file records the electronic data immediately after said inputting the electronic data inputs the electronic data.*

The limitations of claim 25 are the same as the limitations of claim 12, and are therefore rejected on the same basis.

**Claim 26:**

With regard to the limitation of:

- *said recording the electronic data records the electronic data on the electronic data record file when said discriminations certify said recording medium and the operator.*

The limitations of claim 26 are the same as the limitations of claim 13, and are therefore rejected on the same basis.

**Claim 27:**

With regard to the limitations of:

- *inputting the electronic data to be recorded on the electronic data record file;*

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- *storing log of the input electronic data in the log file;*
- *recording the input electronic data on the electronic data record file;*
- *discriminating whether a detachable recording medium is certified one or not when said recording medium is applied to said system;*
- *discriminating whether a certified operator operates said system or not;*
- *permitting input of update data for updating the electronic data recorded on the electronic data record file when the recording medium and the operator are certified;*
- *inputting the update data after the permission;*
- *updating the electronic data in the electronic data record file in accordance with the input update data; and*
- *storing log of the input update data in the log file.*

The limitations of claim 27 are the same as the limitations of claim 19, and are therefore rejected on the same basis.

**Claim 28:**

With regard to the limitations of:

- *said electronic data input step also inputs verification information representing who inputs the electronic data; said update data input step also inputs verification information representing who inputs the update data;*



- *said electronic data recording step associates the electronic data with the verification information representing who inputs the electronic data before recording the electronic data on the electronic data record file; and*
- *said update data recording step associates the update data with the verification information representing who inputs the update data before recording the update data on the electronic data record file.*

The limitations of claim 28 are the same as the limitations of claim 8, and are therefore rejected on the same basis.

**Claim 29:**

With regard to the limitation of:

- *a segment for inputting the electronic data to be recorded on the electronic data record file;*
- *a segment for recording log of the input electronic data on the log file;*
- *a segment for recording the input electronic data on the electronic data record file;*
- *a segment for discriminating whether a detachable recording medium is certified one or not when said recording medium is applied to said computer system;*
- *a segment for discriminating whether an operator is a certified operator or not; a segment for permitting input of update data for*

*updating the electronic data recorded on the electronic data record file when said recording medium and the operator are certified;*

- *a segment for inputting the update data when the update data input is permitted;*
- *a segment for updating the electronic data recorded on the electronic data record file in accordance with the input update data;*  
*and*
- *a segment for storing log of the input update data in the log file.*

The limitations of claim 29 are the same as the limitations of claim 19, and are therefore rejected on the same basis.

**Claim 30:**

With regard to the limitation of:

- said electronic data input segment also inputs verification information representing who inputs the electronic data,
- said update data input segment also inputs verification information representing who inputs the update data,
- said electronic data recording segment associates the verification information representing who inputs the electronic data with the electronic data before recording the electronic data on the electronic data record file, and

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- said update data recording segment associates the verification information representing who inputs the update data before recording the update data on the electronic data record file.

The limitations of claim 30 are the same as the limitations of claim 18, and are therefore rejected on the same basis.